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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/006,760	11/19/2001	Shohei Koide	176/60901 (6-11402-968) 2042	
7590 · 04/19/2005			EXAMINER	
Michael L. Goldman			MURPHY, JOSEPH F	
NIXON PEABODY LLP			ART UNIT	PAPER NUMBER
Clinton Square			ARTONII	PAPER NUMBER
P.O. Box 31051			1646	
Rochester, NY 14603			DATE MAILED: 04/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
		KOIDE, SHOHEI				
Office Action Summary	10/006,760	Art Unit				
Office Action Summary	Examiner					
The MAN INC DATE of this communication and	Joseph F. Murphy	orrespondence address				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2/14	<u>/2005</u> .					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		*1				
4) ☐ Claim(s) 1-108 is/are pending in the application 4a) Of the above claim(s) 17-108 is/are withdress. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	m. 🗖	ate Patent Application (PTO-152)				
						

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DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group I, claims 1-16 in the reply filed on 2/14/2005 is acknowledged. The traversal is on the ground(s) that the claims are all closely related and require common areas of search and consideration. This is not found persuasive for the following reasons. Applicant's attention is directed to MPEP 808.02 which states that "Where the related inventions as claimed are shown to be distinct under the criteria of MPEP 806.05 (c-i), the examiner, in order to establish reasons for insisting upon restriction, must show by appropriate explanation one of the following: (A) Separate classification thereof, (B) A separate status in the art when they are classifiable together; (C) A different field of search." As set forth in the Restriction requirement, Group I is classified in class 530, subclass 350; Group II is classified in class 435, subclass 7.1; Group IV is classified in class 435, subclass 7.8; Group V is classified in class 424, subclass 192.1. The separate classification established for each Group demonstrates that each distinct Group has attained recognition in the art as a separate subject for inventive effort, and also a separate field of search. Thus, the Restriction requirement is proper, and made FINAL.

Claims 17-108 are withdrawn from consideration pursuant to 37 CFR 1.142(b). Claims 1-16 are under consideration.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible

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harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-16 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,673,901 (Koide). An obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but an examined application claim is not patentably distinct from the reference claim(s) because the examined claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985).

Here, claim 1 of the '901 patent is drawn to an Fn3 monobody comprising at least two bstrand domain sequences with a loop region which varies from the wild-type sequence, and further wherein the loop region comprises at least two amino acids. The monobody of claim 1

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differs from the monobody claimed in the instant application in that the instant claims do not recite that the wild-type sequence is SEQ ID NO: 110, nor that the monobody has an N- or Cterminal tail of at least two amino acids, nor wherein the monobody is a fusion protein. The instantly claimed monobody is an obvious variation of the claim as set forth in the '901 patent because the Specification teaches that the wild-type sequence is SEQ ID NO: 110 (column 7, lines 40-49), and that the solubility of a minibody is significantly improved by the addition of an N- or C- terminal tail (column 33, lines 11-18). The '901 patent further discloses fusion proteins comprising monobodies and his tags (column 13, lines 40-47). Applicant is reminded that those portions of the specification which provide support for the patent claims may also be examined and considered when addressing the issue of whether a claim in the application defines an obvious variation of an invention claimed in the patent. In re Vogel, 422 F.2d 438, 441-42, 164 USPQ 619, 622 (CCPA 1970), MPEP 804. Thus, the supporting portion of the '901 patent supports an Fn3 monobody comprising at least two b-strand domain sequences with a loop region which varies from the wild-type sequence, and further wherein the loop region comprises at least two amino acids, wherein the wild-type sequence is SEQ ID NO: 110, and that the monobody has an N- or C-terminal tail of at least two amino acids, and wherein the monobody is a fusion protein.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-16 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 98/56915 (Koide).

The claims are drawn to an Fn3 monobody comprising at least two β-strand domain sequences with a loop region which varies from the wild-type sequence, wherein the loop region comprises at least two amino acids, and further wherein the monobody has an N- or C-terminal tail of at least two amino acids, and wherein the monobody is a fusion protein. The '915 reference teaches a Fn3 monobody comprising a plurality of Fn3 β-strand domain sequences linked to a plurality of loop sequences, and further wherein the loop regions comprise deletions, insertions or mutations of at least two amino acids (page 6, lines 11-18), and further wherein the solubility of a minibody is significantly improved by the addition of an N- or C- terminal tail (page 51, lines 7-10), and additionally wherein the monobody is a fusion protein (page 22, lines 3-7), thus the claims are anticipated.

References

The Office will no longer be supplying paper copies of U.S. Patents cited in Office Actions. Applicant is advised that the cited U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, all U.S. patents and patent application publications are available on the USPTO web site (www.uspto.gov), from the Office of Public Records and from commercial sources. Applicant may direct inquiries about the use of the Office's PAIR system to the Electronic Business Center (EBC) at http://www.uspto.gov/ebc/index.html or 1-866-217-9197.

Conclusion

No claim is allowed.

Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Murphy whose telephone number is (571) 272-0877. The examiner can normally be reached Monday through Friday from 7:30 am to 5:00 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tony Caputa, can be reached on (571) 272-0829.

The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph F. Murphy, Ph. D. Patent Examiner Art Unit 1646 April 15, 2005

JOSEPH MURPHY PATENT EXAMINER